

USE OF CARBON COATING IN AN ELECTROCHEMICAL CELL

Abstract

An electrochemical cell includes a first electrode, a second electrode, and a membrane disposed between and in fluid communication with the first and second electrodes. A first cell separator plate opposes the first electrode and defines a first flow field therebetween, the first flow field being proximate a first frame member. A second cell separator plate opposes the second electrode and defines a second flow field therebetween, the second flow field being proximate a second frame member. The first cell separator plate, the second cell separator plate, the first frame member, the second frame member, or a combination thereof, are at least partially coated with a layer containing elemental carbon.